[FIG.1]

100 BASE STATION APPARATUS

RECEIVED SIGNAL

TRANSMISSION SIGNAL

- 5 104 RECEIVED SIGNAL DEMODULATION SECTION
  - 105 SCHEDULER SECTION
  - 106 TRANSMISSION SIGNAL GENERATION SECTION
  - 107 DIRECTIVITY SWITCHING INSTRUCTION SECTION
  - 103 DIRECTIVITY CONTROL SECTION
- 10 102-1 RECEPTION RF SECTION
  - 102-n RECEPTION RF SECTION
  - 108-1 TRANSMISSION RF SECTION
  - 108-n TRANSMISSION RF SECTION
- 15 [FIG.2]

200 TERMINAL APPARATUS

RECEIVED SIGNAL

TRANSMISSION SIGNAL

- 203 RECEIVED SIGNAL DEMODULATION SECTION
- 20 204 SIR MEASURING, SECTION
  - 205 TRANSMISSION SIGNAL GENERATION SECTION
  - 202 RECEPTION RF SECTION
  - 206 TRANSMISSION RF SECTION
- 25 [FIG.3]

FROM DIRECTIVITY CONTROL SECTION 103

- 301 TIMER
- 302 DIRECTIVITY SWITCHING INSTRUCTION SIGNAL

GENERATION SECTION

TO DIRECTIVITY CONTROL SECTION 103

[FIG.4]

5 START

ST401 PREPARE FOR REPETITION AS MANY TIMES AS DIRECTIVITIES

ST1402 TRANSMIT REFERENCE SIGNAL WITH DIRECTIVITY N

ST1403 RECEIVE SIR MEASUREMENT RESULT

10 ST1404 TRANSMIT CHANNEL USING ADAPTIVE MODULATION WITH DIRECTIVITY N

ST1405 ELAPSED PREDETERMINED TIME?

ST1406 REPEATE AS MANY TIMES AS DIRECTIVITIES

END

15

[FIG.6]

RECEIVED SIGNAL

600 BASE STATION APPARATUS

601 DIRECTIVITY SWITCHING SIGNAL GENERATION SECTION

20 TRANSMISSION SIGNAL

104 RECEIVED SIGNAL DEMODULATION SECTION

105 SCHEDULER SECTION

106 TRANSMISSION SIGNAL GENERATION SECTION

602 DIRECTIVITY SWITCHING INSTRUCTION SECTION

25 103 DIRECTIVITY CONTROL SECTION

102-1 RECEPTION RF SECTION

102-n RECEPTION RF SECTION

108-1 TRANSMISSION RF SECTION

108-n TRANSMISSION RF SECTION

[FIG.7]

RECEIVED SIGNAL

- 5 700 TERMINAL APPARATUS
  - 701 DIRECTIVITY SWITCHING DECISION SECTION
  - 203 RECEIVED SIGNAL DEMODULATION SECTION
  - 204 SIR MEASURING SECTION
  - 205 TRANSMISSION SIGNAL GENERATION SECTION
- 10 TRANSMISSION SIGNAL
  - 202 RECEPTION RF SECTION
  - 206 TRANSMISSION RF SECTION

[FIG.8]

- 15 TO DIRECTIVITY CONTROL SECTION 103
  - 801 DIRECTIVITY SWITCHING TIMING DETERMINING SECTION
  - 802 DIRECTIVITY SWITCHING SIGNAL INSERTION TIMING

DETERMINING SECTION

FROM DIRECTIVITY CONTROL SECTION 103

20 TO DIRECTIVITY SWITCHING SIGNAL GENERATION SECTION 601

[FIG.9]

START

- ST901 DEMODULATE RECEIVED SIGNAL
- 25 ST902 DIRECTIVITY SWITCHING SIGNAL INCLUDED?
  - ST903 SIR OUTPUT
  - ST904 SIR DISABLED
  - ST905 TRANSMIT TRANSMISSION SIGNAL

END

[FIG.10]

DIRECTIVITY SWITCHING SIGNAL

5 SLOT #1

DIRECTIVITY SWITCHING SLOT

- 1 SLOT
- 1 SLOT
- 10 [FIG.11]

RECEIVED SIGNAL

- 1100 BASE STATION APPARATUS
- 1102 DIRECTIVITY NUMBER INFORMATION GENERATION SECTION
- 1101 DIRECTIVITY SWITCHING SIGNAL GENERATION SECTION
- 15 104 RECEIVED SIGNAL DEMODULATION SECTION
  - 105 SCHEDULER SECTION
  - 106 TRANSMISSION SIGNAL GENERATION SECTION
  - 1103 DIRECTIVITY SWITCHING INSTRUCTION SECTION

TRANSMISSION SIGNAL

- 20 DIRECTIVITY INFORMATION
  - 103 DIRECTIVITY CONTROL SECTION
  - 102-1 RECEPTION RF SECTION
  - 102-n RECEPTION RF SECTION
  - 108-1 TRANSMISSION RF SECTION
- 25 108-n TRANSMISSION RF SECTION

[FIG.12]

RECEIVED SIGNAL

- 1200 TERMINAL APPARATUS
- 1201 DIRECTIVITY SWITCHING DECISION SECTION
- 1202 DIRECTIVITY NUMBER INFORMATION DECISION SECTION
- 203 RECEIVED SIGNAL DEMODULATION SECTION
- 5 204 SIR MEASURING SECTION
  - 205 TRANSMISSION SIGNAL GENERATION SECTION

TRANSMISSION SIGNAL

- 202 RECEPTION RF SECTION
- 206 TRANSMISSION RF SECTION

10

[FIG.13]

TO DIRECTIVITY CONTROL SECTION 103

- 1301 DIRECTIVITY SWITCHING TIMING DETERMINING SECTION
- 1303 DIRECTIVITY NUMBER INFORMATION INSERTION TIMING
- 15 DETERMINING SECTION
  - 1302 DIRECTIVITY SWITCHING SIGNAL INSERTION TIMING

DETERMINING SECTION

TO DIRECTIVITY NUMBER INFORMATION GENERATION SECTION 1102

TO DIRECTIVITY SWITCHING SIGNAL GENERATION SECTION 1101

20 FROM DIRECTIVITY CONTROL SECTION 103

[FIG.14]

FROM DIRECTIVITY SWITCHING DECISION SECTION 1201

- 1401 DIRECTIVITY NUMBER INFORMATION EXTRACTION SECTION
- 25 1403 STORAGE SECTION
  - 1402 QUALITY VARIATION CALCULATION SECTION

TO SIR MEASURING SECTION 204

FROM RECEIVED SIGNAL DEMODULATION SECTION 203

[FIG.15]

START

ST1501 DEMODULATE RECEIVED SIGNAL

5 ST1502 DIRECTIVITY SWITCHING SIGNAL INCLUDED?

ST1503 MEASURE SIR FROM REFERENCE SIGNAL

ST1504 MEASURE SIR FROM DIRECTIVITY NUMBER INFORMATION

ST1505 SIR OUTPUT

ST1506 TRANSMIT TRANSMISSION SIGNAL

10 END